SONY VAIO

VGN-FZ190 CTO Series

VAIO® FZ Series Notebook PC

The VAIO FZ is a 15.4" [2] entertainment PC in the body of an incredibly thin-and-light notebook

MORE DISPLAY FOR YOUR DOLLAR

The thin-and-light VAIO® FZ notebook packs big power and even bigger entertainment into a small, portable package. This unique 5.75 pound[1] PC combines all the benefits of a 15.4" widescreen display[2] with the dimensions or "footprint" of a much smaller notebook. The VAIO FZ is designed to maximize LCD space with advanced space-saving engineering techniques implemented throughout the chassis, including a reconfigured battery and motherboard design. The result is a brilliant, 15.4" widescreen display[2] in the body of a portable, thin-and-light notebook.

A/V INSTANT MODE[15]

Imagine having the ability to enjoy your entertainment on your notebook without ever booting up. The VAIO® FZ notebook with A/V Instant Mode [15] lets you kick off your entertainment with a single push of a button. Go straight to watching a movie, playing music, or viewing photos without ever booting-up the operating system, thereby conserving a significant amount of battery life. Convenient, built-in A/V* control buttons also let you play, pause, rewind, stop, eject and control volume all with one-touch ease.

ELEGANCE AND SOPHISTICATION

With subtle sophistication and undeniable elegance, the lightweight VAIO® FZ notebook is crafted with an aesthetic touch and careful attention to detail. From its exciting entertainment functions to its brilliant XBRITE-ECO™ or XBRITE HiColor™ display, the VAIO FZ is a beautifully designed, thin-and-light mobile entertainment center.

The VAIO® FZ is a thin-and-light entertainment notebook featuring a 15.4" widescreen LCD[2] with XBRITE-ECO™ or XBRITE HiColor™ technology and embedded A/V controls for one touch access to your music, movies and pictures. With a built-in camera and microphone for video messaging[5] and CD/DVD and optional Blu-Ray burner[4], this lightning-fast, super-powerful PC is slim, lightweight, and packed with entertainment features.

Windows Vista Home Premium

intel Centrino Duo Core 2 Duo inside

dlna CERTIFIED

XBRITE-ECO™

Click to DVD

like.no.other™

VGN-FZ190 CTO Series

VAIO® FZ Series Notebook PC

Specifications

General

Computer Type: Notebook

Type of Use: Portable

Action Buttons: S1, (programmable), Volume, AV Mode[15], Play/Pause, and Stop

Pointing Device: Electro-Static touch pad

Hardware

Keyboard: QWERTY, 82 keys with 2mm stroke and 19.05mm pitch

Camera: Built-in camera and microphone

Processor

Type: Intel® Core™ 2 Duo Processor T7700 (Configuration 1)
Intel® Core™ 2 Duo Processor T7500 (Configuration 2)
Intel® Core™ 2 Duo Processor T7300 (Configuration 3) or
Intel® Core™ 2 Duo Processor T7100 (Configuration 4)

Speed: 2.4GHz[8] (Configuration 1), 2.2GHz[8] (Configuration 2), 2GHz[8] (Configuration 3), or 1.8GHz[8] (Configuration 4)

Front Side Bus Speed: 800MHz

L2 Cache: 4MB Advanced Smart Cache (for Configurations 1-3)
2MB (for Configurations 4)

Technology: Intel® Centrino® Duo processor Technology

Memory

Type: DDR2

Installed: 4GB PC2-5300 (2GB x 2), 2GB PC2-5300 (1GB x 2), 1GB PC2-5300 (1GB x 1), or 1GB PC2-5300 (512MB x 2)

Maximum: 4GB[17]

Speed: 667MHz

Hard Drive

Capacity: 250GB[9] (Configuration 1), 200GB[9] (Configuration 2), 160GB[9] (Configuration 3), 120GB[9] (Configuration 4), 100GB[9] (Configuration 5), or 80GB[9] (Configuration 6)

Speed: 4200rpm (Configuration 1-2) or 5400rpm(Configuration 3-6)

Interface: Serial ATA

Optical Drive #1

DVD+R DL Write: 4x max.

DVD+R Write: 8x max.

DVD+RW Write: 8x max.

DVD-R Write: 8x max.

DVD-RW Write: 6x max.

CD-R Write: 24x max.

CD-RW Write: 16x max.

DVD±RW: Yes[4] (DVD±R DL/DVD±RW/DVD-RAM)

CD Read: 24x max.

DVD Read: 8x max.

DVD-RAM Write: 5x max.

DVD-R DL Write: 4x max.

BD-R Read: 2x max. (Blu-ray Disc™ only)

BD-R Write: 2x max. (Blu-ray Disc™ only)

BD-RE Write: 2x max. (Blu-ray Disc™ only)

BD-ROM Read: 2x max. (Blu-ray Disc™ only)

BD-RE Read: 2x max. (Blu-ray Disc™ only)

BD-R DL Read: 1.6x max. (Blu-ray Disc™ only)

BD-R DL Write: 1x max. (Blu-ray Disc™ only)

DVD-RAM Read: 5x max.

Blu-Ray Disc™ Support: Optional[14] (Can only be configured with select PC hardware options)

BD-RE DL Read: 1.6x max. (Blu-ray Disc™ only)

BD-RE DL Write: 1x max. (Blu-ray Disc™ only)

Expansion Slots

Multimedia Card Reader: One Memory Stick Duo™ media with MagicGate® functionality
One ExpressCard™ /34 Slot
One Secure Digital Media (SD)

Audio

Sound System: Sony® Sound Reality™ - Audio Enhancer

Display

Screen or Display Technology: WXGA LCD

Screen Size: 15.4"[2]

Resolution: 1280 x 800

XBRITE-HiColor™ Technology: Optional

XBRITE-ECO™ Technology: Optional

Graphics

Processor: Mobile Intel® Graphics Media Accelerator X3100 or NVIDIA® GeForce® 8400M GT GPU

Video RAM: 251MB Total Available Graphics Memory[11] if Mobile Intel® Graphics Media Accelerator X3100 and 1GB ram is selected.
358MB Total Available Graphics Memory[11] if Mobile Intel® Graphics Media Accelerator X3100 and over 2GB ram is selected
383MB Total Available Graphics Memory[11] if NVIDIA® GeForce® 8400M GT GPU and 1GB ram is selected.
895MB Total Available Graphics Memory[11] if NVIDIA® GeForce® 8400M GT GPU and over 2GB ram is selected.

Chipset: Intel® 965GM

Interface: VGA and S-Video Out with Smart Display Sensor

Inputs and Outputs

Ethernet Port: 1

HDMI™ Connection Output(s): 1 (only available with NVIDIA® GeForce® 8400M GT GPU)

Headphone Jack: 1

Memory Stick® Media Slot: 1

Modem Jack: 1

Secure Digital Slot: 1

Microphone Input: 1

S-Video Output(s): 1

USB Port(s): 3 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

Express Card™ Slot: 1 type /34

i.LINK® Connection: 1(4-pin) interface[7]

Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)

Ethernet Speed: 10Base-T/100Base-TX

Modem Type: Integrated V.92/V.90 Modem (RJ-11)

Wireless LAN: Intel® PRO/Wireless 4965AGN Network Connection (802.11a/b/g/n)[3]

Bluetooth® Technology: Integrated Bluetooth® Technology[16]

Power

Battery Type: Standard Lithium-ion Battery (VGP-BPS2B) or Large Capacity Lithium-ion Battery (VGP-BPL8)

Estimated Battery Life: 2 to 5 hrs[6] Standard Capacity Battery
3.5 to 8 hrs[6] Large Capacity Battery

Power Requirements: 110W+10%

Software

Operating System: Windows Vista™ Home Premium, Windows Vista™ Business, or Windows Vista™ Ultimate

Internet Services: AOL® 90-Day Risk Free Trial - New Users Only

Supplied Software: Microsoft® Works 8.5
60-Day Trial Version of Microsoft® Office 2007[10]

Sony® Original Software: Click to DVD®- DVD Creation, LocationFree® Player
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

Security and Anti-Virus Software: Norton® Internet Security™ 2007 60-Day trial with spyware protection

Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[13]

Limited Warranty and Onsite Service: 1 Year Limited Warranty with Onsite Service[12]

Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO

Dimensions

Weight: 5.75 lbs.[1]

Measurements: 14"(W) x 0.98-1.4"(H) x 10.02"(D)[1]

Supplied Accessories

Standard Lithium-ion battery (VGP-BPS8) or Large Capacity Lithium-ion Battery (VGP-BPL8)

AC adapter(VGP-AC19V19)

Power Cord

Optional Accessories

Large Capacity Lithium-ion Battery (VGP-BPL8)

AC Adapter (VGP-AC19V10)

Stick AC Adapter (VGP-AC19V21)

USB Laser Mouse (VGP-UMS55/B)

USB Laser Mouse (VGP-UMS55/S)

Neoprene Notebook and AC Adapter Case (VGP-AMC3)

All-in-one 2.1 Channel Speaker (VGP-SP100)

Sport Backpack (VGP-CCP4/L)

Urban Messenger Bag (VGP-AML2)

Color: Silver w/White Keyboard, Sliver w/Black Keyboard

1. Non-metric weights and measures are approximate and may vary.
2. Viewable area measured diagonally.
3. Requires 802.11n compatible access point. Some functionality may require Internet services, which may require a fee.
4. DVD media/formats are not universally compatible.
5. Broadband internet service required along with third party services which may require a subscription or other service fee.
6. Actual battery life will vary based on product settings, usage patterns, battery and environmental conditions.
7. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
8. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
9. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
10. The Microsoft Office 2007 60-Day Trial software is intended for evaluation purposes only. This trial software is installed on your system and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-use options and operations.
11. Total Available Graphics Memory refers to the new Windows Vista™ classification of graphics memory, which is the total of Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory varies depending on the operating condition and system memory size.
12. When available, Sony will provide Onsite Service in fulfillment of its limited warranty obligations. Any such services are subject to the terms and conditions of the limited warranty. See actual Limited Warranty for details. Onsite Service will be provided via third-party technician to be dispatched as needed following phone-based troubleshooting. Some repairs may be accomplished with self repair kits. Onsite Service may not be available in all locations.
13. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
14. As with other optical media devices, circumstances may limit compatibility or prevent Blu-ray Disc™ media playback. VAIO computers may not support movie playback on packaged media recorded in AVC or VC1 formats at high bit rates.
15. A/V Instant Mode not available with Bluray option.
16. Use of this Bluetooth enabled product with other devices may vary as not all Bluetooth devices are compatible.
17. A portion of the system memory over 3GB may not be available to the operating system.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice.

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